TMDL

UPDATE



Missouri Department of Natural Resources

2002 303(d) List

- Comment Period Extended to August 15th
- Requests to List & De-List Specific Waterbodies
- Sediment Listing Issues
- New Data Supporting De-Listing of Waterbodies Not Proposed in the Original 303(d) Submission Will Not be Considered

Set Schedule

- Availability of Data
- Priority Ranking
- Schedule in MOU



Data Assessment and Collection

- Assessment of Existing Data
- Schedule Needed Monitoring Two Years in Advance of TMDL
- Complete QAPP for ESP or Contract with External Entity for Monitoring
- Enter or Download Acceptable Data into Electronic Data Management System

Complete TMDL Information Sheet

- Describes the Water Quality Impairment in Easily Understood Terms
- Includes Summary of Data Used for 303(d) Listing

Start Public Participation Process

Modeling & TMDL Calculation

- Evaluate Models & Determine Appropriate Model for Situation
- Perform Two Model Runs One to Derive Target and Other to Verify Target
- Prepare Maps, Graphs, Tables for TMDL Document
- Help Revise TMDL Document in Response to EPA & Public Comments

Draft TMDL Document Submit Draft to EPA for Review

TMDL Placed on 30 Day Public Notice
Track Comments, Prepare Responses
and Incorporate Appropriate
Comments into Document

Send Final TMDL to EPA for Approval

Track Implementation & Post Implementation Monitoring

Elk River TMDL (11)

- Three Partnership Meetings Held -Meeting on June 24
- Using Load Duration Curve & Verification with SWAT
- Preliminary P Target of 0.05 mg/L
 Based on Historic Data Prior to 1985
- Funding for Monitoring?
- Need Representation From More Interests on Watershed Partnership

Elk River - AR & MO

- Joint Efforts between AR and MO -Monitoring
 Point Source Control
 Public Meeting/Awareness Effort
- New AR Legislation
 Registration of Poultry Producers
 Poultry Litter Utilization
- Bentonville Wastewater Plant
 De-nitrification
 P Removal to 1.0 mg/L

Jacks Fork TMDL (1)

- Three Public Meetings -Meeting on July 10
- Good Participation from Interests
- Preliminary Target Geomean of 21-30 colonies/100 mL + Standard of 200 colonies/100 mL
- DNR Turning Over Partnership Process to Extension and Local Citizens

Consent Decree Schedule for TMDL Development

Calendar Year	TMDLs Required this Year	Cumulative TMDLs Required	TMDLs Completed this year	Cumulative TMDLs Completed	Status re Consent Decree
2000	13	13	14	14	+1
2001	9	22	10	24	+2
2002	6	28	3	28	=
2003	34	62	11*	39	-23
2004	21	83			
2005	39	122			
2006	12	134			
2007	8	142			
2008	10	152			
2009	22	174			

^{*} EPA Proposed De-Listings for 2002 303(d) List

2004 TMDL Schedule

- 2nd Nicholson Sulfate from AML
- Big Otter Creek pH from AML
- Chat Creek Zinc from AML
- Big River (2) Lead from AMLs
- Big Creek Metals from Smelter
- Flat River Creek Metals from Tailings
- Shaw Branch Metals from AML

2004 TMDL Schedule

- Hinkson Creek Unknown from NPS
- Lamar Lake Nutrients from Ag
- Spring Fork Lake Nutrients from Ag
- Mussel Fork Sediment from Ag
- Smithville Lake Atrazine from Ag
- Trib to Big Otter Creek pH from Mining
- Turkey Creek BOD/NFR from Bonne Terre

2004 TMDL Schedule

Possibilities to Meet Consent Decree #'s

Point Sources

- St. Francis River
- Main Ditch

Atrazine

- LaBelle Lake #2
- Vandalia Lake
- Monroe City Route J